**OMEIR RIAZ**

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**PROFESSIONAL EXPERIENCE**

**The University of Toledo, Toledo, Ohio 09/2019 – Present**

Research Assistant

* Planned and executed experiments around formulating polyesters for packaging applications including 3 company outsourced projects (EATON, DAK, AFC)
* Achieved significant cost savings by troubleshooting and fixing RTI laboratory polymer reactor system,increasing the efficiency of the system from 32% to 84%
* Oversaw and managed an experimental project for industry partners- project value $50,000+
* Performed characterization techniques (SEM, XRD, DSC, DMA, Raman, TGA, FTIR, Polarized Light Microscopy,SEM,TEM, ASTM Mechanical tests)
* Prepared polymer samples using film extrusion, injection-molding, compression molding, and twin screw extruder
* Conducted indepth structure property relation studies

**BASF. Abu-Dhabi, United Arab Emirates 06/2018 – 06/2019**

Technical Service Process Engineer

* Developed Basic Design Package for grassroots, revamp,solvent swap of gas treatment technology - Syngas, Ammonia, and Liquefied Natural Gas (LNG) facilities.
* Conducted PFD and Heat & Material Balance reviews for Pre-FEED, FEED and detailed design phase for Acid Gas Enrichment (AGE), Tail-Gas Treatment (TGT) units- project value:$520,000
* Developed engineering drawings-piping and instrumentation diagrams, control diagrams
* Developed process simulations in Aspen Plus for gas treatment, ethane cracker,sour water stripper, carbon capture processes to identify capacity enhancement, heat integration opportunities to continuously improve plant performance.
* Provided technical assistance in troubleshooting technical & operating issues, drive the root cause and look for opportunities to fill the critical gaps in process development and design

**Schlumberger. Abu-Dhabi, United Arab Emirates 08/2016 – 12/2016**

Drilling and Measurement Maintenance Engineer (Intern)

* Provided assistance in planning and maintaining records keeping-Tools maintained include Array Resistivity Compensated (ARC) Tool, Azimuthal Neutron Density (AD) Tool.
* Investigated root cause of failure and malfunction of tools in concerns of corrosion, machinery deficiencies, malpractice of technicians in field and shop, and proposed corrective action plan.
* Audited mechanical lifting tools, reviewing documentation, and maintained database, and forwarded measurement reports to line manager.

**EDUCATION**

**The University of Toledo, Toledo, Ohio Expected May 2021**

MSc. Chemical Engineering (Polymer Engineering)

**United Arab Emirates University, Abu Dhabi, UAE 12/2017**

BSc. Chemical Engineering

**ADDITIONAL**

* Vice president, Chemical Engineering Graduate Student Association , University of Toledo, 2020
* Participated in several international conferences with focus on developing leadership skills
* Multilingual proficiency
* Computer skills: Aspen Plus,MATLAB,COMSOL,Solid Works,Polymath,Minitab,Microsoft Word, Excel ,JMP,PLC